Elliot Epstein

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EDUCATION

Stanford University   **Stanford, California**
Ph.D. in Computational and Mathematical Engineering   Jul. 2022 – Jun. 2026
Master of Science in Computational and Mathematical Engineering (GPA: 4.10/4.30)   Sep. 2021 – Jun. 2026
- Coursework: Numerical Linear Algebra, Reinforcement Learning, Natural Language Processing, Optimization, Discrete Mathematics and Algorithms, Numerical and Theoretical PDEs, Stochastic Methods, Computer Systems, Theory of Statistics I-II, Probabilistic Graphical Models, Launchpad, Stanford Ignite

University of Oxford   **Oxford, United Kingdom**
Master of Science in Mathematical and Computational Finance   Sep. 2020 – Jul. 2021

KTH Royal Institute of Technology   **Stockholm, Sweden**
Bachelor of Science in Engineering Physics (GPA: 4.94/5.00)   Aug. 2017 – Aug. 2020
- Exchange Student at the Department of Mathematics at ETH Zurich from Sep. 2019 to Aug. 2020
- Thesis: "A Review of the Article *Gradient Descent Provably Optimizes Over-parametrized Neural Networks*"

WORK EXPERIENCE

Jump Trading   **Chicago, Illinois**
Incoming Quantitative Research Intern   Jun. 2025 – Aug. 2025

Google   **Sunnyvale, California & Seattle, Washington**
PhD Software Engineering Intern, Gemini   Jun. 2024 – Sep. 2024
- Outcome: Research paper "MMMT-IF: A Challenging Multimodal Multi-Turn Instruction Following Benchmark"
Student Researcher   Oct. 2023 – Jan. 2024
Software Engineering Intern   Jun. 2023 – Sep. 2023
- Worked on an LLM-based chatbot for enterprise solutions

Stanford University   **Stanford, California**
Research Assistant   Sep. 2022 – Apr. 2023
- Long sequence modeling with Prof. Christopher Re in the Stanford AI Lab
Research Assistant   Apr. 2022 – Sep. 2022
- Machine learning to solve PDEs in Prof. Eric Darve's lab

EDF Trading   **London, United Kingdom**
Intern, Quant and Data Group   Apr. 2021 – Aug. 2021
- Developed a model in Python to predict the direction of the next trade of day-ahead gas futures with 70 percent accuracy using LOB data and an ensemble of LSTM networks

PUBLICATIONS

Elliot L. Epstein, Apaar Sadhwani, Kay Giesecke.
A Set-Sequence Model for Time Series. In FinAI@ICLR, 2025

Elliot L. Epstein, Rajat Vadiraj Dwaraknath, Thanawat Sornwanee, John Winnicki, Jerry Weihong Liu.
Score-Debiased Kernel Density Estimation. In FPI@ICLR, 2025

Elliot L. Epstein, Kaisheng Yao, Jing Li, Xinyi Bai, Hamid Palangi.
MMMT-IF: A Challenging Multimodal Multi-Turn Instruction Following Benchmark. In SFLLM@NeurIPS, 2024

Elliot L. Epstein∗, Daniel Y. Fu∗, Eric Nguyen, Armin W. Thomas, Michael Zhang, Tri Dao, Atri Rudra, Christopher Re.
Simple Hardware-Efficient Long Convolutions for Sequence Modeling. In ICML, 2023. In ME-FoMo@ICLR, 2023

Filip Christiansen, **Elliot L. Epstein**, Erica Smedberg, Måns Åkerlund, Kevin Smith, Elisabeth Epstein. Ultrasound image analysis using deep neural networks for discriminating between benign and malignant ovarian tumors: comparison with expert subjective assessment. In *Ultrasound Obstet Gynecol,* 2021

SERVICE

Stanford University   **Stanford, California**
Course Assistant   2022 – 2024
- *Machine Learning (CS 229), Applied Data Science (CME 218), Partial Differential Equations (MATH 220), Financial Risk Analytics (MS&E 246),* Investment Science *(MS&E 245A, MS&E 245B)*
Admissions Committee: Stanford MS in Computational and Mathematical Engineering   2024 – 2025

ICML, ICLR
Reviewer   2024 – 2025

SKILLS

Proficient in**:** Python (NumPy, PyTorch, Jax, TensorFlow, LangChain, pandas, scikit-learn, Flask), Linux, LaTeX
Experienced in: C++, C, MATLAB, Git, Bloomberg Terminal, GCP, Assembly, AWS, Docker, R